

PTO/SB/21 (08-00) Approved for use through 10/31/2002. OMB 0651-0031 Please type a plus sign (+) inside this box —> [+]

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0	(%)				Application Nu		09/685,010
	ANI (F	NSMI	IIA		Filing Date		October 5, 2000
MAR 0	2001	FORM	VI		First Named In	ventor	Eva A. Turley
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T& TRAD	be used for all	correspond	lence aftei	r initial filing)	Examiner Nam	е	
. (Total Number of Pag	ges in This	Submissio	n 13	Attorney Docke	et No.	910130.401C1
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	Fee Transmitta Fee Attach Amendment/Re After Final After Final Affidavits/o Extension of Ti Express Aband Request Information Dis Statement Certified Copy Document(s) Response to M Parts/Incomple Response Parts unde	declaration(me Requestionment sclosure of Priority lissing te Applicat to Missing er 37 C.F.R	st	Assignment I (for an Applic Drawing(s)) General Auth 37 C.F.R. § 1 Licensing-rel Petition Petition to Corresponde Terminal Disconding Small Entity Request for I CD(s), Number of CD(s)	eation) porization under (1.36(a)(3)) pated Papers ponvert to a (1.36) porney, Change of (1.36) price Address claimer Statement Refund	Co Ap Bo Into Ap Gro Re Pro Sta Ad (plo PTO F Cited	er Allowance mmunication to Group peal Communication to ard of Appeals and erferences peal Communication to oup (Appeal Notice, Brief, ply Brief) oprietary Information atus Letter ditional Enclosure(s) ease identify below): form 1449 (10 sheets) References (155) n Receipt Postcard
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I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, Washington, DC 20231.

2/26/01

Date

Nathan Adderson

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Eva A. Turley and Tony F. Cruz

Application No.

09/685,010

Filed

October 5, 2000

For

COMPOSITIONS AND METHODS FOR TREATING CELLULAR

RESPONSE TO INJURY AND OTHER PROLIFERATING CELL

DISORDERS REGULATED BY HYALADHERIN AND

HYALURONANS

Docket No.

: 910130.401C1

Commissioner for Patents Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

> Respectfully submitted, Seed Intellectual Property Law Group PLLC

William T. Christiansen, Ph.D.

Registration No. 44,614

WTC:nka

Enclosures:

Postcard Form PTO/SB/21 Form PTO-1449 (10 sheets) Cited References (155)

701 Fifth Avenue, Suite 6300 Seattle, Washington 98104-7092

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FORM PTO-1449 MAR 0 9 2001 (REV.7-80)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 910130.401C1

APPLICATION NO. 09/685,010

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS
Eva A. Turley and Tony F. Cruz

FILING DATE

October 5, 2000

GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,018,884	4/19/77	Cleeland, Jr. et al.	424	7	
	AB	4,359,535	11/16/82	Pieczenik	435	317	
	AC	4,376,110	3/8/83	David et al.	436	513	
	AD	4,411,993	10/25/83	Gillis	435	68	
	AE	4,486,530	12/4/84	David et al.	435	7	
	AF	4,528,266	7/9/85	Pieczenik	435	6	
	AG	4,543,439	9/24/85	Frackelton, Jr. et al.	935	92	
	АН	4,551,433	11/5/85	DeBoer	435	253	
	AI	4,603,112	7/29/86	Paoletti et al.	435	235	
	AJ	4,736,866	4/12/88	Leder et al.	800	1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSI	LATION
	DOCUMENT NUMBER	DATE	COUNTRY	YES	NO
AK	EP 0360257 B1	11/13/96	EPO /		
AL	EP 0415731 A2	3/6/91	EPO J		
AM	EP 0440219 A1	8/7/91	EPO d		
AN	EP 0612844 A2	8/31/94	EPO C		
AO	WO 89/01973	3/9/89	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	Alting-Mees et al., "Monoclonal Antibody Expression Libraries: A Rapid Alternative to
	Hybridomas," Strategies in Molecular Biology 3: 1-9, 1990.
AQ	Bauer et al., "A genetic enrichment for mutations constructed by oligodeoxynucleotide-
	directed mutagenesis," Gene 37: 73-81, 1985.
AR	Bird et al., "Single-Chain Antigen-Binding Proteins," Science 242(4877): 423-426, 1988.

EXAMINER

^{*} EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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Eva A. T

(Use several sheets if necessary)

Eva A. Turley and Tony F. Cruz

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GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
·	ВА	4,744,981	5/17/88	Pavanasasivam	424	85	
_	ВВ	4,745,051	5/17/88	Smith et al.	435	68	
	вс	4,769,330	9/6/88	Paoletti et al.	435	172.3	
_	BD	4,816,597	3/28/89	Snyder, II, deceased et al.	560	25	
_	BE	4,851,341	7/25/89	Hopp et al.	435	68	
	BF	4,870,009	9/26/89	Evans et al.	435	70	
	BG	4,873,191	10/10/89	Wagner et al.	435	172.3	
	вн	4,897,255	1/30/90	Fritzberg et al.	424	1.1	
	ві	4,902,614	2/20/90	Wakabayashi et al.	435	7	
	вј	4,987,071	1/22/91	Cech et al.	435	91	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	YES	LATION NO
ВК	WO 90/02809	3/22/90	WIPO		
BL	WO 90/07936	7/26/90	WIPO /		
ВМ	WO 90/07862	7/26/90	WIPO U		
BN	WO 91/00285	1/10/91	WIPO /		
во	WO 92/06693	4/30/94	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ВР	Brinster et al., "Factors affecting the efficiency of introducing foreign DNA into mice by microinjecting eggs," <i>PNAS 82</i> (13): 4438-4442, July, 1985.
BQ	Chothia et al., "Domain Association in Immunoglobulin Molecules. The Packing of Variable Domains," <i>Journal of Molecular Biology 186</i> (3): 651-663, 1985.
BR	Craik et al., "Use of Oligonucleotides for Site-Specific Mutagenesis," <i>BioTechniques 3</i> (1): 12-19, 1985.

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MAR 0 9 2001 FORM PTO-1449 (REV.7-80) INFORMATION DISCLOSURE STATEMENT

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ATTY, DOCKET NO. 910130.401C1 APPLICATION NO. 09/685,010

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APPLICANTS Eva A. Turley and Tony F. Cruz

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GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	4,988,496	1/29/91	Srinivasan et al.	424	1.1	
	СВ	5,017,487	5/21/91	Stunnenberg et al.	435	172.3	
	СС	5,087,571	2/11/92	Leder et al.	435	240.2	
	CD	5,091,309	2/25/92	Schlesinger et al.	435	69.1	
	CE	5,106,951	4/21/92	Morgan, Jr. et al.	530	391.9	
	CF	5,110,833	5/5/92	Mosbach	521	50	
	CG	5,162,215	11/10/92	Bosselman et al.	435	172.3	
	СН	5,166,057	11/24/92	Palese et al.	435	69.1	
	CI	5,169,784	12/8/92	Summers et al.	435	320.1	
	Cì	5,175,383	12/29/92	Leder et al.	800	2	

FOREIGN PATENT DOCUMENTS

		DOCUMENT	DATE	COUNTRY	TRANSI	LATION
		NUMBER	DATE	COUNTRI	YES	NO
	CK	WO 92/15679	9/17/92	WIPO		
•	CL	WO 92/15677	9/17/92	WIPO		
	СМ	WO 93/25698	42/23/93	WIPO		
	CN	WO 93/25234	12/28/93	WIPO		
	со	WO 93/20242	10/14/93	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

СР	Curiel et al., "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNA-
	Polylysine Complexes," Human Gene Therapy 3(2): 147-154, 1992.
СО	Drinkwater and Klinedinst, "Chemically induced mutagenesis in a shuttle vector with a low-
	background mutant frequency," PNAS 83(10): 3402-3406, May, 1986.
CR	Fisher-Hoch et al., "Protection of rhesus monkeys from fatal Lassa fever by vaccination with
·	a recombinant vaccinia virus containing the Lassa virus glycoprotein gene," PNAS 86(1):
	317-321, January, 1989.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER		DATE NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5,175,384	12/29/92	Krimpenfort et al.	800	2	
	DB	5,204,244	4/20/93	Fell et al.	435	69.6	
	DC	5,217,879	6/8/93	Huang et al.	435	69.1	
	DD	5,219,740	6/15/93	Miller et al.	435	69.6	
	DE	5,221,778	6/22/93	Byrne et al.	800	2	-
	DF	5,225,539	7/6/93	Winter	530	387.3	
	DG	5,242,687	9/7/93	Tykocinski et al.	424	93	
	DH	5,243,041	9/7/93	Fernandez-Pol	536	23.5	
	DI	5,254,678	10/19/93	Haseloff et al.	536	23.2	
	DJ	5,266,317	11/30/93	Tomalski et al.	424	93 T	

FOREIGN PATENT DOCUMENTS

1	DOCUMENT	DATE		COUNTRY	TRANS	LATION
	NUMBER	DATE		/ COUNTRY	YES	NO
DK	WO 93/10218	5/27/93	WIPO	V_{i}		_
DL	WO 93/11230	6/10/93	WIPO			
DM	WO 93/12227	6/24/93	WIPO	Vil		
DN	WO 94/03622	2/17/94	WIPO			
DO	WO 95/24929	9/21/95	WIPO			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

L		
	DP	Flexner et al., "Attenuation and immunogenicity in primates of vaccinia virts recombinants expressing human interleukin-2," <i>Vaccine</i> 8(1): 17-21, February, 1990.
	DQ	Forster and Symons, "Self-Cleavage of Plus and Minus RNAs of a Virusoid and/a Structural Model for the Active Sites," Cell 49(2): 211-220, April 24, 1987.
	DR .	Gerlach et al., "Construction of a plant disease resistance gene from the satellite RNA of tobacco ringspot virus," <i>Nature 328</i> (6133): 802-805, August, 1987.

EXAMINER

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Sheet 5 of 10 MAR 0 9 2001 ATTY. DOCKET NO. APPLICATION NO. U.S. DEPARTMENT OF COMMERCE FORM PTO-1449 (REV.7-80) PATENT AND TRADEMARK OFFICE 09/685,010 910130.401C1 APPLICANTS INFORMATION DISCLOSURE STATEMENT Eva A. Turley and Tony F. Cruz (Use several sheets if necessary) GROUP ART UNIT FILING DATE October 5, 2000 **U.S. PATENT DOCUMENTS** FILING DATE *EXAMINER SUBCLASS CLASS NAME DOCUMENT NUMBER DATE IF APPROPRIATE INITIAL 2 2/22/94 Ellman 427 5,288,514 435 320.1 5,288,641 2/22/94 Roizman EB 435 68.1 EC 5,328,834 7/12/94 Ngo et al. 2 800 9/13/94 ED 5,347,075 Sorge 26.7 Cook et al. 536 10/25/94 5,359,051 EE 2 800 5,387,742 2/7/95 Cordell EF 5 435 5,395,750 3/7/95 Dillon et al. EG 364 496 5,463,564 10/31/95 Agrafiotis et al. EΗ 435 320.1 1/9/96 5,482,856 Fell, Jr. et al. EI 528 391 5,506,337 4/9/96 Summerton et al. EJ FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT DATE NUMBER YES NO **WIPO** WO 95/24186 9/14/95 ΕK WO 95/16918 **WIPO** 6/22/95 EL **WIPO** WO 95/16712 6/22/95 **EM** WO 95/16209 6/15/95 **WIPO** EN WO 95/12387 WIPO 5/11/95 EO OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Hammer et al., "Production of transgenic rabbits, sheep and pigs by microinjection," Nature EP 315: 680-683, June 20, 1985. Haseloff and Gerlach, "Simple RNA enzymes with new and highly specific EQ endoribonuclease activities," Nature 334(6183): 585-591, August 18, 1988.

EXAMINER DATE CONSIDERED

Biology 184(1): 99-105, 1985.

Heijne, Gunner von, "Signal Sequences, The Limits of Variation," Journal of Molecyllar

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FORM PTO-1449 (REV.7-80) INFORMATION DISCLOSURE STATEMENT

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 910130.401C1

October 5, 2000

APPLICATION NO. 09/685,010

APPLICANTS

Eva A. Turley and Tony F. Cruz

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GROUP ART UNIT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	FA	5,545,808	8/13/96	Hew et al.	800	2	
	FB	5,567,607	10/22/96	Zhao et al.	435	172.1	
	FC	5,580,859	12/3/96	Felgner et al.	514	44	
	FD	5,591,624	1/7/97	Barber et al.	435	240.2	
	FE	5,633,076	5/27/97	DeBoer et al.	435	172.3	
•	FF	5,693,761	12/2/97	Queen et al.	536	23.53	
	FG	5,693,762	12/2/97	Queen et al.	530	387.3	
	FH	5,698,435	12/16/97	Robinson et al.	435	240.2	
	FI	5,716,613	2/10/98	Guber et al.	424	93.2	
	FJ	5,716,826	2/10/98	Gruber et al.	435	320.1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT	DATE	COUNTRY	TRANSLATIO	
	NUMBER	DATE	COONIKI	YES	NO
FK	WO 95/10607	4/20/95	WIPO (,
FL	WO 95/04277	2/9/95	WIPO /		
FM	WO 95/02566	1/26/95	WIPO		
FN	WO 95/30642	11/16/95	WIPO		
FO	WO 96/00148	1/4/96	WIPO		

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FP	Hirashima et al., Molecular Biology of RNA: New Perspectives, Academic Press, Inc., San
	Diego, CA, 1987, Chapter 26, "A New Immune System against Viral Infection Using
	Antisense RNA: micRNA-Immune System," pp. 401-413.
FO	Hopp et al., "A Short Polypeptide Marker Sequence Useful For Recombinant Protein
'	Identification and Purification," <i>BioTechnology</i> 6(10): 1204-1210, October, 1988.
FR	Horwitz et al., "Selection of new biological activities from random nucleotide sequences:
	evolutionary and practical considerations," Genome 3: 112-117, 1989.

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	GA	5,716,832	2/10/98	Barber et al.	435	172.3	
	GB	5,741,957	4/21/98	Deboer et al.	800	2	
	GC	5,770,380	6/23/98	Hamilton et al.	435	7.1	
	GD	5,780,009	7/14/98	Karatzas et al.	424	9.1	
	GE	5,780,225	7/14/98	Wigler et al.	435	6	
	GF	5,789,245	8/4/98	Dubensky, Jr. et al.	435	320.1	
	GG	5,814,482	9/29/98	Dubensky, Jr. et al.	435	69.3	
	GH	5,817,491	10/6/98	Yee et al.	435	172.3	'a
	GI	5,840,479	11/24/98	Little et al.	435	5	
	GJ	5,843,723	12/1/98	Dubensky, Jr. et al.	435	69.3	

FOREIGN PATENT DOCUMENTS

		DOCUMENT	DATE	COUNTRY		TRANSLATIO		
		NUMBER	DATE				YES	NO
	GK	WO 97/38098	10/16/97	WIPO				
	GL	WO 99/01164	1/14/99	WIPO	1	i		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

1		
	GP	Huse et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," <i>Science 246</i> (4935): 1275-1281, December, 1989.
	GQ	Inman, "Covalent Linkage of Functional Groups, Ligands, and Proteins of Polyacrylamide Beads," <i>Methods in Enzymology</i> , Vol. 34, Affinity Techniques, Enzyme Purification: Part B,
		Jakoby and Wilchek (eds.), Academic Press, New York, 1974, pp. 30-59.
	GR	Jones et al., "Replacing the complementarity-determining regions in a human antibody with
	1 1	those from a mouse." <i>Nature</i> 321: 522-525. May 29, 1986.

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	НА	5,849,288	12/15/98	Reisner	424	93.21	
	нв	5,851,529	12/22/98	Guber et al.	424	188.1	
	нс	5,872,005	2/16/99	Wang et al.	435	320.1	
	HD	RE 32,011	10/22/85	Zimmerman et al.	260	112 B	

FOREIGN PATENT DOCUMENTS

	DOCUMENT DATE	COUNTRY	TRANSLATION		
		DATE	COUNTRY	YES	NO
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HF	Kit, Saul, "Recombinant-Derived Modified-Live Herpesvirus Vaccines," Adv. Exp. Med. Biol. 215: 219-235, 1989.
HG	Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature 256</i> (5517): 495-497, August 7, 1975.
н	Kyte and Doolittle, "A Simple Method for Displaying the Hydropathic Character of a Protein," <i>Journal of Molecular Biology</i> 157(1): 105-132, 1982.
н	Look et al., "The Identification of Cyclooxygenase-1 Inhibitors From 4-Thiazolidinone Combinatorial Libraries," <i>Bioorganic and Medicinal Chemistry Letters</i> 6(6): 707-712, 1996
нк	Luytjes et al., "Amplification, Expression, and Packaging of a Foreign Gene by Influenza Virus," <i>Cell</i> 59: 1107-1113, December 22, 1989.
HL	Liao and Wise, "A simple high-efficiency method for random mutagenesis of cloned genes using forced nucleotide misincorporation," <i>Gene 88</i> : 107-111, 1990.
НМ	McMichael et al., "Cytotoxic T-Cell Immunity To Influenza," The New England Journal of Medicine 309(1): 13-17, 1983.
HN	Morrison et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains," <i>PNAS 81</i> (21): 6851-6855, November 1984.
НО	Moss and Flexner, "Vaccinia Virus Expression Vectors," Annals of the New York Academy of Sciences 569: 86-103, 1989

EXAMINER

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Sheet 9 of 10 ATTY. DOCKET NO. APPLICATION NO. FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV.7-80) PATENT AND TRADEMARK OFFICE 09/685,010 910130.401C1 APPLICANTS **CLOSURE STATEMENT** Eva A. Turley and Tony F. Cruz Use several sheets if necessary) FILING DATE GROUP ART UNIT October 5, 2000 U.S. PATENT DOCUMENTS FILING DATE *EXAMINER CLASS **SUBCLASS** DOCUMENT NUMBER NAME DATE IF APPROPRIATE INITIAL ΙA FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT COUNTRY DATE NUMBER YES ΙB OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Mulligan et al., "Synthesis of rabbit β-globin in cultured monkey kidney cells following IC infection with a SV40 β-globin recombinant genome," Nature 277: 108-114, January, 1979. Novotny and Haber, "Structural invariants of antigen binding: Comparison of ID immunoglobulin V_L-V_H domain dimers," PNAS 82(14): 4592-4596, July, 1985. Palmiter et al., "Metallothionein-Human GH Fusion Genes Stimulate Growth of Mice," ΙE Science 222(4625): 809-814, November, 1983. Palmiter and Brinster, "Transgenic Mice," Cell 41(2): 343-345, June, 1985. ΙF Phillips and Wei, "Solid Phase Synthesis of Benzimidazoles," Tet. Letters 37: 4887-4890, IG 1996. Poznansky et al., "Gene Transfer into Human Lymphocytes by a Defective Human ΙH Immunodeficiency Virus Type 1 Vector," Journal of Virology 65(1): 532-536, January, 1991. Presta, "Antibody engineering," Current Op. Struct. Biol. 2:593-596, 1992 II Riechmann et al., "Reshaping human antibodies for therapy," Nature 332(6162): 323-327, IJ March 24, 1988. Ruhland et al., "Solid-Supported Combinatorial Synthesis of Structurally Diverse β-ΙK Lactams," J. Am. Chem. Soc. 118(1): 253-254, 1996. Sastry et al., "Cloning of the immunological repertoire in Escherichia coli for generation of IL monoclonal catalytic antibodies: Construction of a heavy chain variable region-specific

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